GMV MOBILITY

SOLUTIONS FOR SMART CITIES

GMV is a global leader in the design and implementation of Intelligent Transportation Systems, with more than 400 customers in 35 countries. Smart Cities concept entails different pillars, where one of them is SMART CONNECTED URBAN MOBILITY. GMV’s approach to it capitalizes on its capability to personalize the mobility experience for the citizen and to enhance urban sustainability management through accessible and efficient services.

In order to achieve this objective, GMV has a portfolio of solutions which includes:
- Transit transportation fleet management systems
- Electronic fare collection systems
- Metropolitan on demand transport management system
- Service planning software
- Fleet management systems and services
- Urban rail transport management systems
- Video surveillance systems
- Congestion charging (GNSS based)
- Parking meter management systems
- Mobility solutions for soft transport modes (car-sharing, car-pooling, bike-sharing etc...)

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GMV MOBILITY SOLUTIONS FOR SMART CITIES
SOLUTIONS FOR PUBLIC TRANSPORTATION IN THE SMART CITY
Mobility services & resources smart management at local level including public transport, urban logistics, security and emergencies.

Urban intermodal mobility through the use of interoperable ticketing systems and smart easy-to-use information systems.

Smart citizen card for urban intermodal mobility (public transport & soft transport modes) including the use of NFC and smartphone related technologies.

Smartphone Apps for urban intermodal mobility (journey planning, prices information, arrival times, on board value-added information, etc...)
SMART LAST-MILE URBAN LOGISTICS

Last-mile urban logistics targets congestion reduction, air pollution lowering / noise pollution cut, local economy development and housing policy encouragement.

Smart solutions for urban logistics cover regulatory & land planning, infrastructure, incentives and technology-based solutions.

GMV provides a wide range of technological solutions for making urban logistics smarter by means of:
- Optimization of urban last-mile microdistribution processes.
- Provisioning of Value Added Services in ‘milk runs’ for private / public entities.
- Exploitation of European GNSS positioning (Galileo) added value for inner urban environments.

USAGE BASED INSURANCE / PAYD

A device installed in the car (Onboard Unit) allows for information registering and sends this information to a remote platform.

Information related to Position, Timing, Speed, Acceleration etc. allows for defining a driver’s profile and leads to drivers scoring.

The profile and scoring takes into account the distance driven, the days of the week when the vehicle is usually driven, speed limit surpassing, number of driving events / incidents (i.e. aggressive braking, accelerations etc.) and other data.

Based on the scoring of drivers, it is possible to adjust the price of the insurance to the precise use of the vehicle by the driver.

GNSS-BASED CONGESTION CHARGING SOLUTIONS

GMV is a reference in GNSS-based Electronic Fee Collection and tolling.

GMV’s U10-T/U20-T onboard unit is a dual technology (GNSS+DSRC) OBU fully adapted to the European standards and Directives for Road User Charging and Electronic Fee Collection.

GMV’s technology has been successfully tested in different European trials in London (TfL), Sweden (ARENA), The Netherlands (ABvM) and Spain (internal trials). Some trials were extensively performed for the European GNSS Supervisory Authority (GINA project).

ELECTROMOBILITY

GMV develops Telematics Smart Units allowing for different functionalities for EVs:
- battery charging
- remote charging start
- timer configuration
- charging calendar
- notification of nearest charging points
- reservation of charging points from vehicle
- etc...

for worldwide leading car makers.

GMV also offers solutions of monitoring hybrid and electric vehicles for assessment of performance providing both onboard equipment and service platform for assessment of vehicle-related information.

Solutions for Electric Vehicle car-sharing.
SOLUTIONS FOR SOFT TRANSPORT MODES IN THE SMART CITY

CARSHARING
Advanced carsharing solutions for conventional cars and Electric Vehicles.

Carsharing for municipalities, carsharing operators or large companies (corporate carsharing).

Advanced web tools for:
- Reservations management and usage consultation
- Optimal fleet administration, real-time fleet monitoring and management, billing etc.

GMV’s On-board equipment and different technologies’ readers for vehicle’s opening/closing, engine’s unlocking etc.

CARPOOLING
Innovative 2.0 web platforms allowing potential users with similar origin/destination and schedules to get in touch with the final goal of sharing their journeys by the vehicle of one of the users for both public and private customers.
This provides benefits both for the driver and for the passengers, including economical savings, access to incentives (free parking, discounts) while contributing to reduce pollution and congestion.

BIKE SHARING
Web-based platform and smartphone App for users to facilitate system access, routes recording, multimodal information consultation and sustainable mobility pattern data.

Web-based platform for administrators to facilitate real-time fleet monitoring and management, mobility patterns analysis, etc...

Bikes locking/unlocking by contact-less access control system (citizen smart card or mobile phone).

On-board equipment for geolocalization and communications.

GMV IN SMART MOBILITY: INTERNATIONAL APPROACH